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Water Supply Outlook For Idaho

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SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
Feb. 1, 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
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|||||
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WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR FEBRUARY 1, 1982

The February 1 snow survey readings continue to indicate near normal to well above normal snowpack conditions throughout the State with the only exceptions being lower portions of the Kootenai River drainage in northern Idaho which is from 85 to 90 percent of normal and the Beaver-Camas Creek drainage east of Dubois which is 75 to 80 percent of normal. All other drainages range from a low of 94 percent of average on the Spokane and Priest River drainages to a high of 175 percent on the Portneuf.

Precipitation across Idaho continues well above average. The average for the month was 132 percent of normal with a range of 79 percent at Twin Falls to 256 percent at Grace. For the water year the state stands at 144 percent of normal. Most of the precipitation came in the form of snow, although some rain did fall at the lower elevations in Idaho.

Temperatures across the state averaged 3 degrees below normal with a range from normal in the extreme north to 6 degrees below normal at Twin Falls.

Warming trends could result in flooding conditions in some drainages in southern and eastern Idaho due to extremely high snowpack conditions at the lower elevations, particularly in the Portneuf drainage where snowpack conditions below the 6300 foot elevation range from 150 percent to 215 percent of average. Unfrozen soils will help reduce this potential. However, soil moisture conditions indicate the soils are near capacity and will absorb less than normal runoff.

Although current reservoir storages continue to be below average in most reservoirs, present conditions indicate most reservoirs will fill. Natural flows should also hold up well into the summer months.

VALLEY PRECIPITATION 1/
Division Averages and Departures
In Inches

DRAINAGE DIVISION	Winter January 1982		Fall - Winter Oct. 1981 - Jan. 1982	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	3.94	+ .46	11.58	- .22
Flathead	3.47	+ .62	8.50	- .71
Clark Fork	2.82	+ .63	7.55	+ .75
Pend Oreille-Spokane	4.44	+ .02	13.82	- .72
Upper Snake	3.51	+ .88	12.24	+ 4.10
Snake River Plain	1.12	- .11	6.16	+ 2.10
Salmon-Payette-Boise	3.20	- .10	3.49	+ 3.84
Clearwater	4.42	- .32	15.08	+ .20
Owyhee-Malheur	1.02	- .46	8.04	+ 3.33

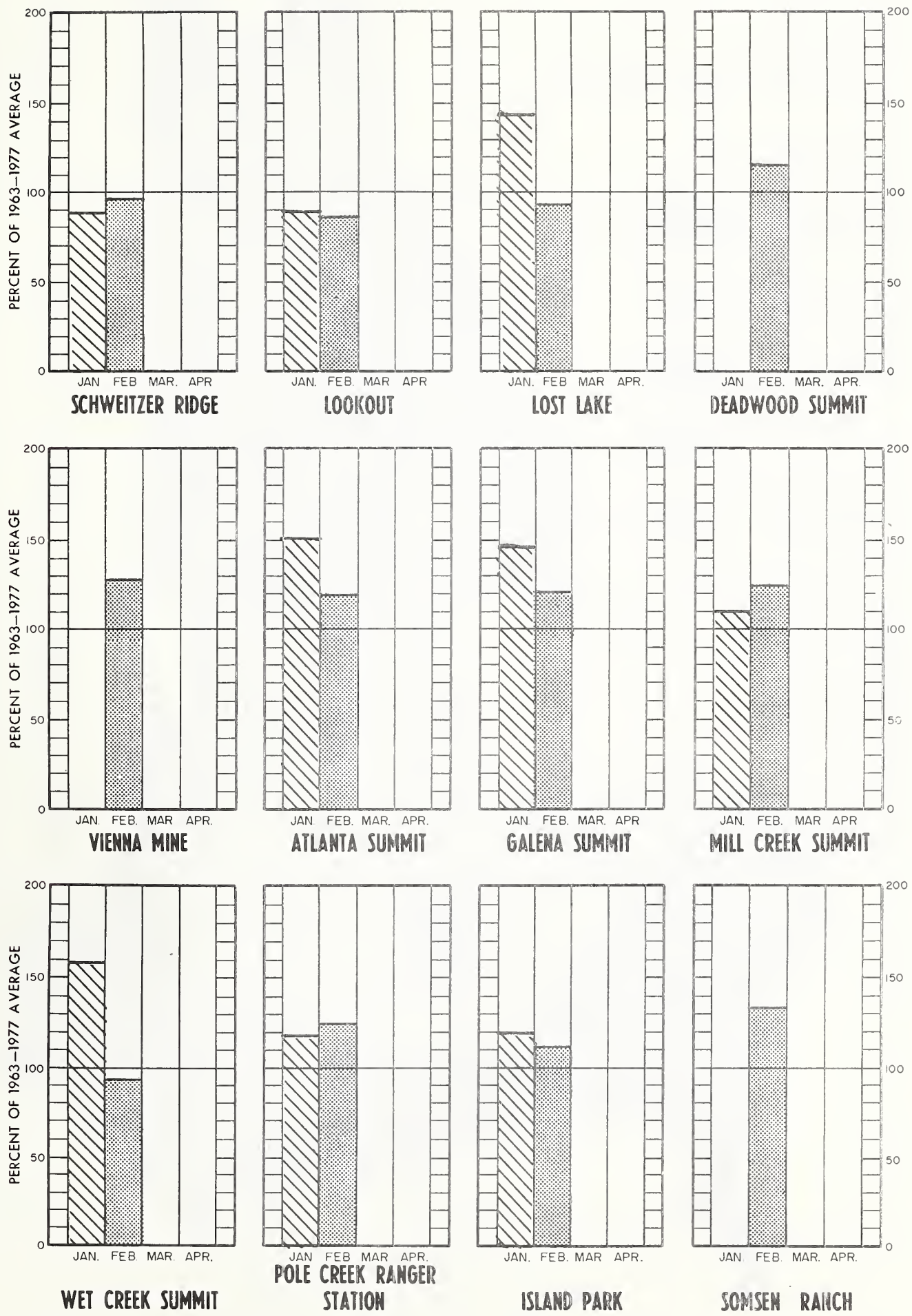
1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average

FEBRUARY 1, 1982



4
COMPARISON of SNOW COVER

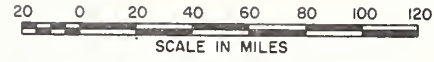
RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenia River	35	111	88
Pend Oreille River	87	174	97
Clark Fork River	62	214	105
Flathead River	25	135	91
Priest River	4 - 5	173	94
Spokane River	6 - 8	251	94
<u>LOWER SNAKE RIVER BASIN</u>			
Clearwater River	12 - 15	290	105
Salmon River	13 - 15	193	116
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5 - 6	206	110
Big Lost River	4	134	110
Little Wood River	4	129	98
Big Wood River	10 - 11	174	123
Boise River	12 - 14	235	119
Payette River	12 - 14	187	110
Weiser River	1	174	98
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	1	487	141
Salmon Falls Creek	4	332	133
Bruneau River	3	352	139
Owyhee River	6	373	162
Jordan Creek	2 - 3	365	147
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Above Palisades Reservoir	30	263	132
Camas-Beaver Creeks	2	124	79
Henrys Fork River	7	201	119
Teton River	7	226	138
Willow Creek	5 - 9	257	141
Blackfoot River	3 - 6	352	138
Portneuf River	4 - 7	356	175
<u>GREAT BASIN</u>			
Bear River - Upper	6	322	134
Bear River - Lower	14	381	136
Montpelier Creek	6	483	146
Mink Creek	2	328	141
Cub River	3	373	125

SNOW WATER DEPTHS

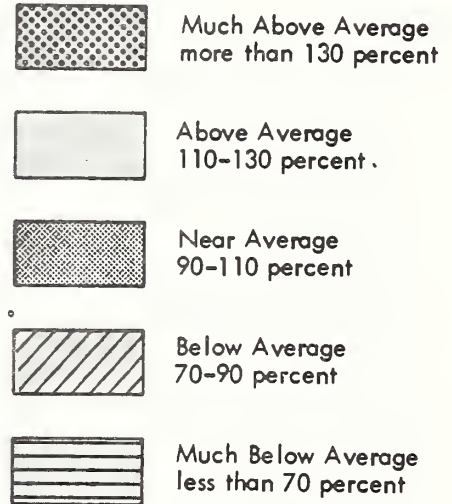
As percent of 1963-77 15 year average

FEBRUARY 1982

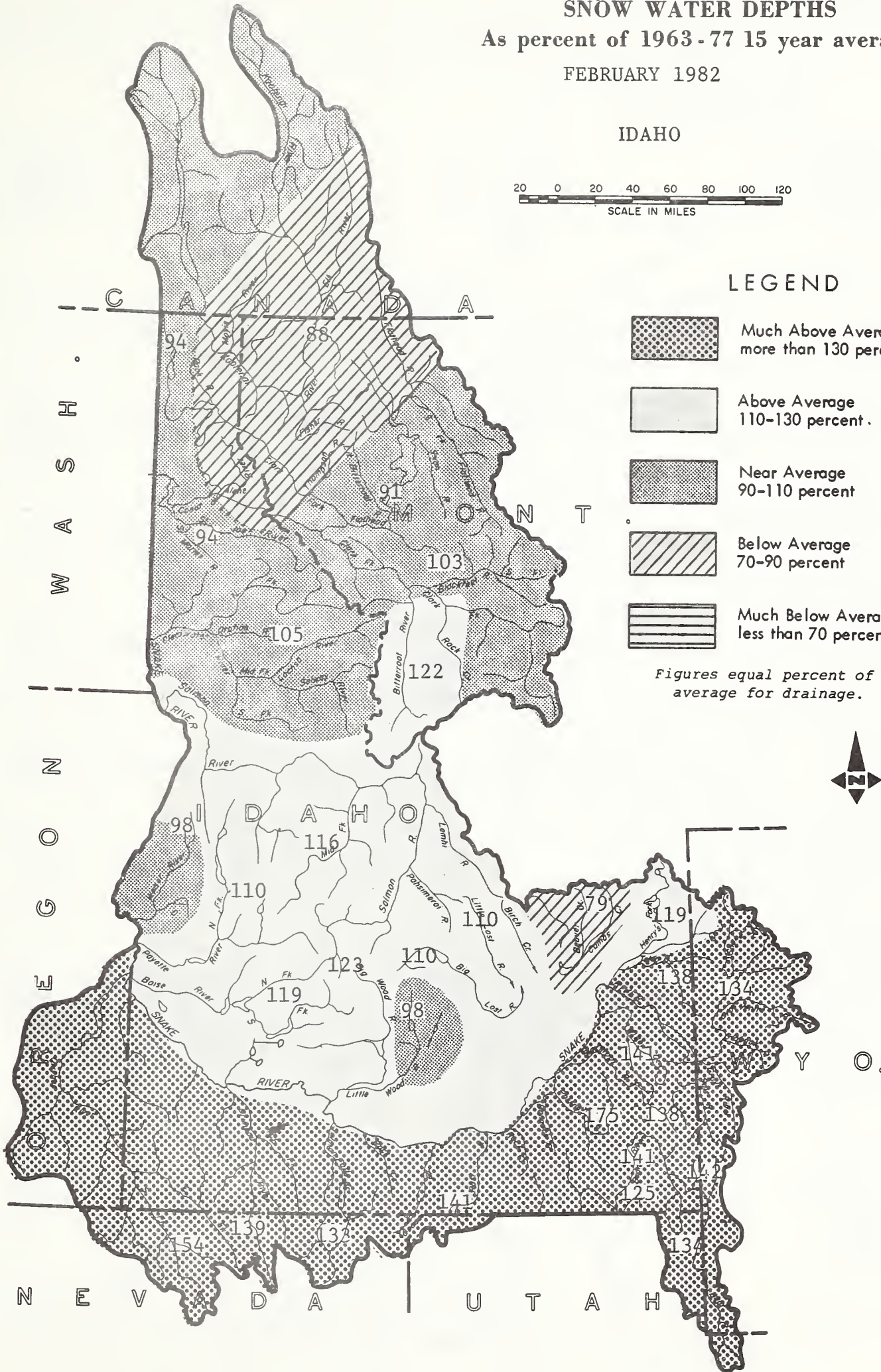
IDAHO



LEGEND



Figures equal percent of average for drainage.



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2381.0	2829.0	2341.0
Flathead	1791.0	887.0	1185.0	1253.3
Pend Oreille	1155.1	300.8	894.9	320.9
Noxon	334.6	320.1	318.6	315.2
<u>Spokane</u>				
Coeur d'Alene	225.1	72.2	180.0	145.3
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	624.4	518.4	552.5	612.5
Palisades	1200.0	628.7	1052.5	907.8
American Falls	1673.0	1016.9	1302.0	1151.2
Island Park	127.0	97.2	114.5	105.0
Grassy Lake	15.2	12.7	12.2	10.4
Brownlee	980.2	459.4	787.6	674.4
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	26.8	26.8	26.4
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	17.0	52.9	51.6
<u>Big Lost</u>				
Mackay	44.2	24.3	40.6	30.3
<u>Big Wood</u>				
Magic	191.5	65.2	111.0	103.6
<u>Little Wood</u>				
Little Wood	30.0	12.6	21.0	16.1
<u>Fish Creek</u>				
Carey Valley	14.4	4.4	6.3	--
<u>Boise</u>				
Anderson Ranch	423.2	320.4	287.9	279.0
Arrowrock	286.6	230.8	215.5	254.3
Lucky Peak	278.2	56.5	223.5	85.9
Lake Lowell (Deer Flat)	169.0	104.7	120.9	122.1
<u>Owyhee</u>				
Owyhee	715.0	421.0	525.3	462.5
<u>Payette</u>				
Cascade	653.2	462.9	477.0	370.8
Deadwood	161.9	85.4	108.5	80.6
<u>Weiser</u>				
Mann Creek	11.1	6.6	5.9	--
<u>Clearwater</u>				
Dworshak	2016.0	773.9	1273.0	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	904.3	1047.3	1026.4

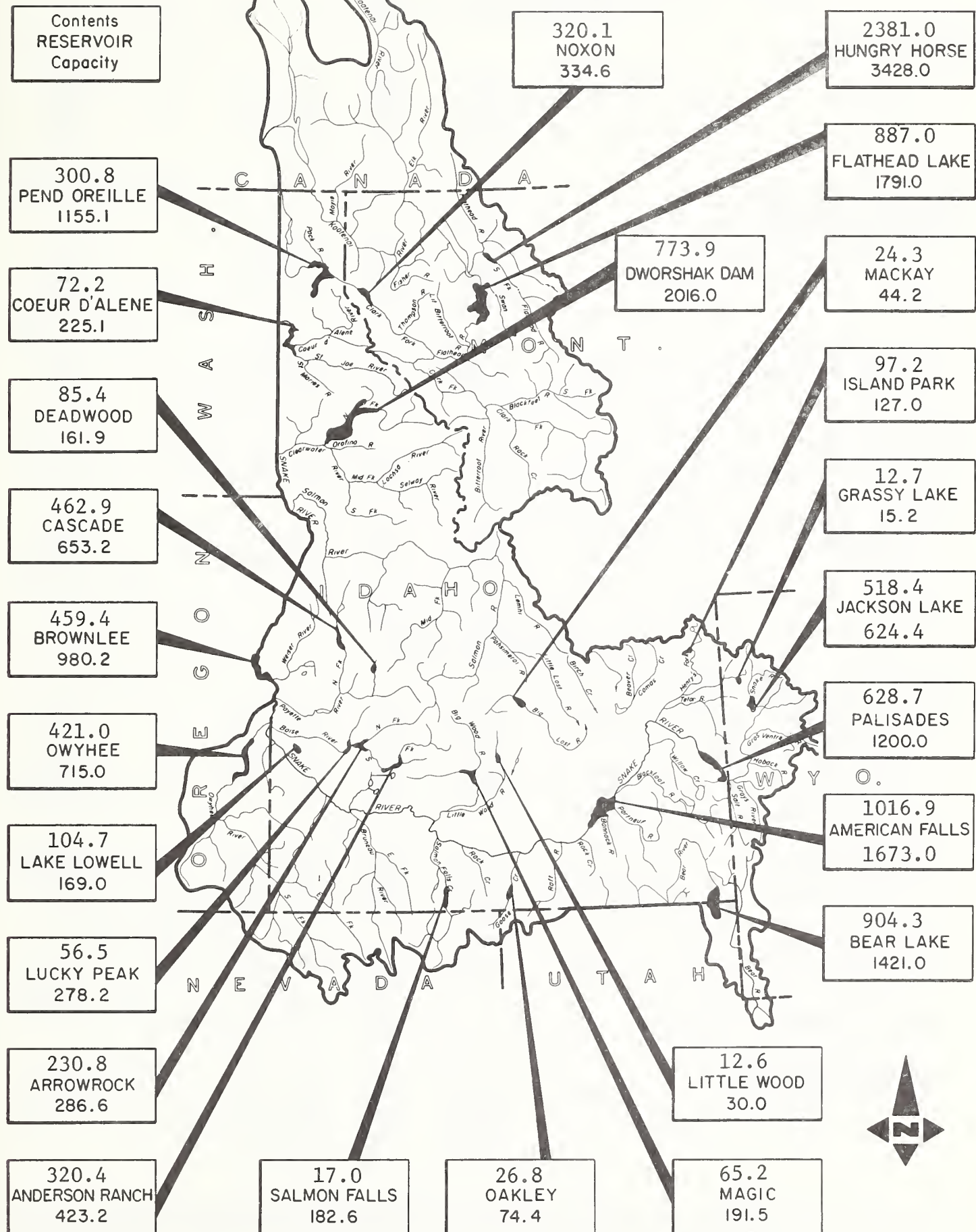
*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1982

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonia	(at)	8610	96	Apr-Sep	--	8858
		7495	97	Apr-Jul	--	7708
		7270	97	Apr-Jun	--	6114

PEND OREILLE RIVERClark Fork River

Whitehorse Rapids	(at)	13500	98	Apr-Sep	--	13781
		12270	98	Apr-Jul	--	12519
		10420	98	Apr-Jun	--	10633

Priest River

Priest River <u>1</u> /	(at)	998	112	Apr-Sep	--	895
		938	112	Apr-Jul	--	841

SPOKANE RIVER

Post Falls <u>2</u> /	(at)	2900	100	Apr-Sep	--	2910
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St. Joe River

Calder	(at)	1250	96	Apr-Sep	--	1309
		1190	96	Apr-Jul	--	1238

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran <u>3</u> /	(at)	1300	144	Apr-Sep	--	903
Palisades Inflow <u>3</u> /		5400	140	Apr-Sep	--	3863
Heise <u>4</u> /	(nr)	5730	135	Apr-Sep	--	4247
Blackfoot <u>5</u> /	(nr)	5950	130	Apr-Jul	--	4579

Henrys Fork

Ashton <u>6</u> /	(nr)	810	110	Apr-Sep	--	737
Rexburg <u>7</u> /	(nr)	1810	119	Apr-Sep	--	1534

Portneuf River

Topaz	(at)	140	130	Mar-Sep	--	108
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Oakley Reservoir Inflow

		44	122	Mar-Sep	--	36
--	--	----	-----	---------	----	----

Salmon Falls Creek

San Jacinto	(nr)	118	124	Mar-Sep	--	95
		112	124	Mar-Jul	--	90
		107	126	Mar-Jun	--	85

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average ⁺
<u>Bruneau River</u>						
Hot Springs	(nr)	306	122	Mar-Sep	--	251
<u>Little Lost River</u>						
Howe	(nr)	48	109	Apr-Sep	--	45
Wet Creek	(bl)	42.5	104	Apr-Sep	--	41
		27	104	Apr-Jun	--	26
<u>Big Lost River</u>						
Howell Ranch	(at)	250	111	Apr-Sep	--	225
		170	110	Apr-Jun	--	154
Mackay <u>8/</u>	(nr)	225	110	Apr-Sep	--	204
<u>Big Wood River</u>						
Magic Reservoir		390	122	Apr-Sep	--	319
Inflow <u>9/</u>		370	122	Apr-Jul	--	303
		405	122	Mar-Jul	--	332
<u>Little Wood River</u>						
Carey	(nr)	111	104	Apr-Sep	--	107
		103	104	Apr-Jul	--	99
		90.5	104	Apr-Jun	--	87
<u>Boise River</u>						
Twin Springs	(nr)	870	119	Apr-Sep	--	733
		805	119	Apr-Jul	--	676
Boise <u>10/</u>	(nr)	1990	120	Apr-Sep	--	1656
		1845	120	Apr-Jul	--	1536
		1630	120	Apr-Jun	--	1360
<u>South Fork</u>						
Anderson Dam <u>11/</u>	(at)	757	122	Apr-Sep	--	622
<u>Owyhee River</u>						
Gold Cr., Nev. <u>12/</u>	(nr)	30	130	Apr-Jul	--	23
Owyhee, Nev. <u>12/</u>	(nr)	100	125	Apr-Jul	--	80
Lake Owyhee		588	150	Apr-Sep	--	392
net inflow <u>13/</u>		865	150	Feb-Jul	--	578
<u>Payette River</u>						
Horseshoe Bend <u>14/</u>	(nr)	2270	122	Apr-Sep	--	1860
<u>North Fork</u>						
Cascade <u>15/</u>	(at)	682	121	Apr-Sep	--	564
Banks <u>15/</u>	(nr)	870	120	Apr-Sep	--	726

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Weiser River</u>						
Weiser	(nr)	566	101	Mar-Sep	--	558
<u>Salmon River</u>						
Whitebird	(at)	8310	116	Apr-Sep	--	7196
<u>Clearwater River</u>						
Spalding	(at)	9270	107	Apr-Sep	--	8672
<u>GREAT BASIN</u>						
<u>BEAR RIVER</u>						
Harer	(at)	353	106	Apr-Sep	--	332
<u>Montpelier Creek</u>						
Montpelier	(nr)	17	137	Apr-Sep	--	12.4
<u>Cub River</u>						
Preston	(nr)	56	112	Apr-Sep	--	50
		53	113	Apr-Jul	--	47

1/ Observed flow corrected for storage in Priest Lake.

2/ Observed flow corrected for storage in Coeur d'Alene Lake.

3/ Corrected for storage in Jackson Lake.

4/ Corrected for storage in Jackson Lake and Palisades.

5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.

6/ Corrected for storage in Henry's Lake and Island Park Reservoir.

7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

8/ Observed flow corrected for storage in Mackay Reservoir.

9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.

10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.

11/ Corrected for storage in Anderson Ranch Reservoir.

12/ Corrected for storage in Wildhorse Reservoir.

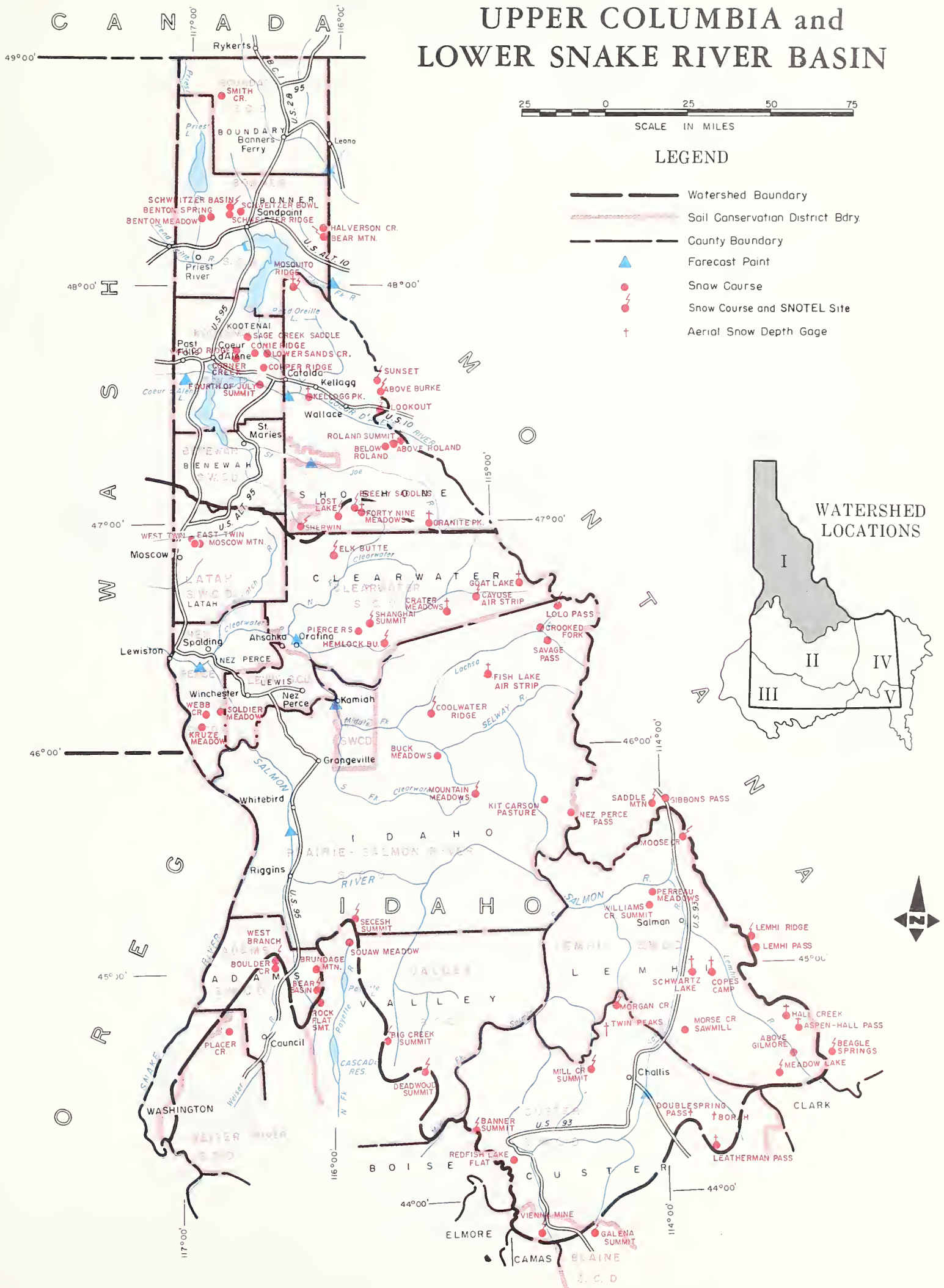
13/ From WPRS records of inflow.

14/ Corrected for storage in Cascade and Deadwood Reservoirs.

15/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

UPPER COLUMBIA and LOWER SNAKE RIVER BASIN



INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
KOOTENAI RIVER						
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800
PEND OREILLE-PRIEST RIVER						
16A8S	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4920
16A10S	I	Schweitzer Basin	18	58N	2W	6090
16A6	I	Schweitzer Bowl	20	58N	2W	4800
16A5	I	Schweitzer Ridge	19	58N	2W	6200
HAYDEN CREEK						
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4080
SPOKANE RIVER						
15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	35	47N	6E	3920
16B2	I	Copper Ridge	6	50N	1W	4820
16B3	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	4	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2S	I	Lookout	4	47N	6E	5140
16B1	I	Lower Sands Creek	32	51N	1W	3120
16A4AS	I	Mosquito Ridge	5	54N	2E	5200
15B5A	I	Roland Summit	26	47N	6E	5120
16C1S	I	Sherwin	28	42N	1E	3200
15B9AS	I	Sunset	33	49N	5E	5540

LOWER SNAKE BASIN

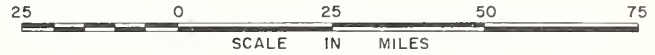
No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
PALOUSE RIVER						
16C3	I	East Twin	13	40N	5W	4130
16C2	I	Moscow Mountain	18	40N	4W	4410
16C4	I	West Twin	14	40N	5W	4220
CLEARWATER RIVER						
15B20SR	I	Breezy Saddle	1	43N	4E	5010
15D5	I	Buck Meadows	27	31N	8E	5650
15C3S	I	Cayuse Airstrip	4	38N	11E	3500
15C7S	I	Coolwater Mountain	31	33N	8E	6040
15C9A	I	Crater Meadows	11	37N	9E	5960
14C11	I	Crooked Fork	27	37N	14E	3610
16C15	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
15B3A	I	Forty-nine Meadows	6	43N	5E	4830
14C9A	I	Goat Lake	4	38N	13E	6500
16C6SR	I	Hemlock Butte	7	36N	7E	5810
15C10S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	15E	4950
16C17	I	Kruze Meadows	11	32N	4W	4780
14C5S	I	Lolo Pass	16	38N	15E	5240
15B14S	I	Lost Lake	9	43N	4E	6110
15D6S	I	Mountain Meadows	9	27N	10E	6360
14D1	M	Nez Perce Pass	25	1S	24W	6570
15C5	I	Pierce Ranger Station	2	36N	5E	3080
14C4	I	Savage Pass	18	36N	15E	6170
15C4S	I	Shanghai Summit	7	37N	6E	4600
16C18	I	Soldier Meadows	33	33N	3W	4650
16C19	I	Webb Creek	36	33N	3½W	4720
SALMON RIVER						
13E19	I	Above Gilmore	13	13N	26E	8240
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200
16E11S	I	Bear Basin	30	19N	3E	5350
15E2S	I	Big Creek Summit	24	15N	5E	6580
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17	I	Copes Camp	36	18N	22E	7520
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9860
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23S	M	Lemhi Ridge	4	10S	15W	8100
13E18S	I	Meadow Lake	26	13N	26E	9150
14E1S	I	Mill Creek Summit	8	13N	17E	8800
13D16S	I	Moose Creek	14	27N	21E	6200
14E4S	I	Morgan Creek	31	18N	19E	7600
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14D5	I	Perreau Meadows	23	21N	20E	8500
14E7	I	Redfish Lake Flat	35	10N	13E	6560
13E16	I	Schwartz Lake	34	18N	22E	8540
14E3A	I	Twin Peaks	28	15N	17E	9190
14F4S	I	Vienna Mine	1	5N	13E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7990

LEGEND

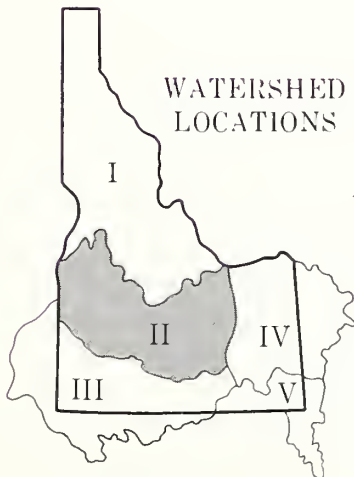
Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

MIDDLE SNAKE RIVER BASIN NORTHSIDE



WATERSHED LOCATIONS



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- † Aerial Snow Depth Gage

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev	No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
LITTLE LOST RIVER							BOISE RIVER (cont.)						
13E5	I	Fairview Guard Station	27	12N	26E	6750	14F10	I	Couch Summit	9	2N	14E	6840
13E10S	I	Hilts Creek	15	8N	25E	8000	16F1	I	Deadman Gulch	29	7N	4E	5600
13E3	I	Lost-Garfield	3	11N	26E	6600	15F14SR	I	Graham Guard Station	9	7N	10E	5690
13E6S	I	Moonshine	31	13N	26E	7440	15E9S	I	Jackson Peak	7	8N	9E	7070
13E4	I	Sawmill Canyon	17	12N	26E	7000	15F1SR	I	Moore's Creek Summit	19	7N	7E	6100
13E7	I	Wet Creek Summit	15	8N	25E	7680	15F6S	I	Prairie	13	2N	7E	4800
BIG LOST RIVER							15F3	I	Road Creek	5	5N	8E	5380
13F3S	I	Bear Canyon	22	5N	21E	7900	15F5SR	I	Trinity Mountain	6	3N	9E	7770
13F2	I	Copper Basin	26	6N	21E	7640	CANYON CREEK						
13F20	I	Dry Fork	23	3N	23E	7220	15F7S	I	Bennett Mountain	7	2S	9E	6560
13F8	I	Fishpole Lake	28	4N	22E	9300	15F12	I	Little Camas Flat	21	1S	9E	4940
13F11	I	Iron Bog	23	4N	22E	7650	PAYETTE RIVER						
13F12	I	Leadbelt	34	4N	23E	6700	15E11S	I	Banner Summit	11	11N	10E	7040
14F3S	I	Lost Wood Divide	25	6N	18E	7900	16F2	I	Bogus Basin	16	5N	3E	6340
14F2S	I	Stickney Mill	9	6N	19E	7430	15E8SR	I	Cozy Cove	17	11N	7E	5380
BIG WOOD RIVER							15E3	I	Crawford Ranger Station	21	14N	4E	4860
15F9	I	Camas Creeks Divide	11	2S	9E	5710	15E10	I	Deadwood Airstrip	8	11N	7E	5360
15F15	I	Chimney Creek	9	1N	12E	6400	15E4S	I	Deadwood Summit	13	14N	7E	6860
14F8S	I	Dollarhide Summit	9	3N	15E	8420	15E1	I	Lake Fork	3	18N	4E	5290
14F1	I	Galena	4	6N	15E	7440	16E1	I	Rock Flat Summit	1	18N	2E	5310
14F6S	I	Galena Snotel	4	6N	15E	7470	15D1S	I	Secesh Summit	4	21N	4E	6520
14F12S	I	Galena Summit	7	6N	15E	8780	15D2	I	Squaw Meadow	17	21N	4E	5900
14F5	I	Graham Ranch	10	5N	17E	6270	16E3	I	Tripod Summit	17	11N	3E	5260
14F16S	I	Hyndman Creek	2	4N	19E	7440	WEISER RIVER						
14F7	I	Mascot Mine	8	4N	20E	7780	16D1	I	Boulder Creek	16	20N	1W	5440
14F9	I	Mount Baldy	23	4N	17E	8920	16E2	I	Placer Creek	15	17N	3W	5860
14F11	I	Soldier Ranger Station	29	2N	14E	5740	16E5S	I	Squaw Flat	32	17N	2E	6240
LITTLE WOOD RIVER							16D8S	I	West Branch	15	20N	1W	5560
13F4S	I	Garfield Ranger Station	11	3N	21E	6560	MANN CREEK						
13F5	I	Muldoon	26	3N	21E	6320	6E10S	I	Bear Saddle	29	15N	5W	6180
13F9RS	I	Swede Peak	4	3N	21E	7640	16E9	I	Mann Creek	20	15N	5W	6080
FISH CREEK							17E1	I	Robinson Creek Ridge	2	14N	6W	6220
13F10	I	Iron Mine Creek	33	3N	23E	6300	16E8	I	Sturgill Ridge	28	15N	5W	6680
13F6	I	Telfer Ranch	7	2N	23E	5840	17E2	I	Thorson Cabin	12	14N	6W	5320
BOISE RIVER													
15F4S	I	Atlanta Summit	23	5N	10E	7580							
15F2	I	Bad Bear	35	7N	6E	4940							
16F4	I	Bogus Basin Road	32	5N	3E	5540							

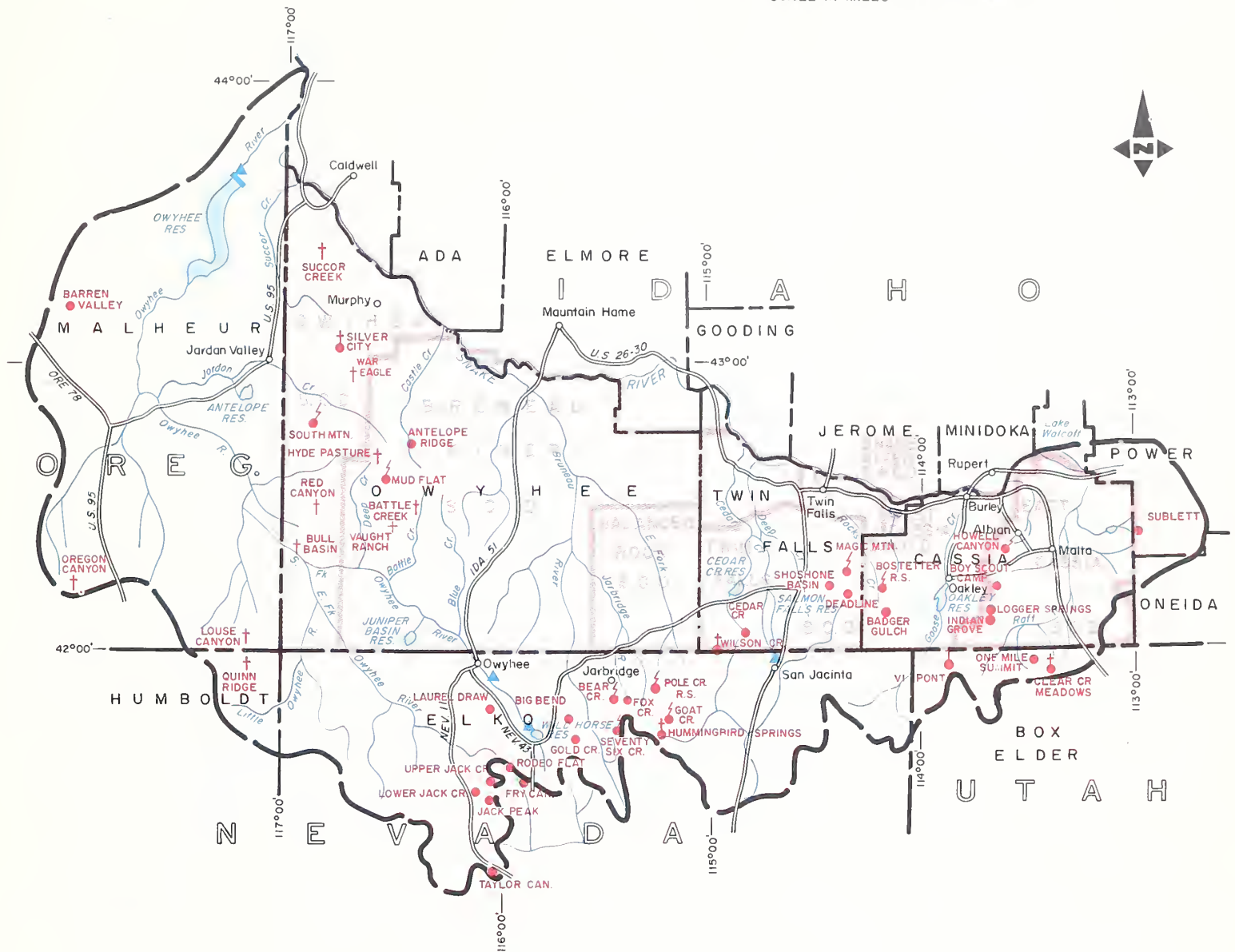
LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

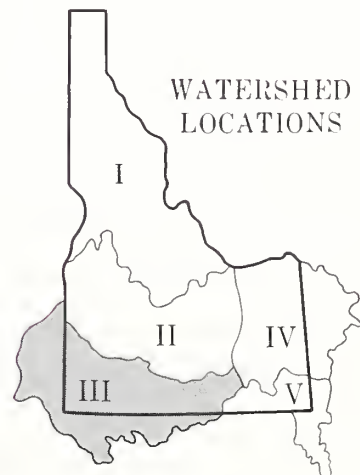
MIDDLE SNAKE RIVER BASIN SOUTHSIDE

25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forcast Point
- Snow Course
- Snow Course and SNOTEL Site
- † Aerial Snow Depth Gage



INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

No.	State	Name	Sec.	Twp.	Rge.	Elevation
			Lat.	And	Long.	
RAFT RIVER						
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	I	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12G8	I	Sublett	17	12S	30E	5950

GOOSE - TRAPPER CREEK

14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
15H13S	N	Goat Creek	31	46N	60E	8880
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500

BRUNEAU RIVER

15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	50E	8360
15H3S	N	Seventy-six Creek	6	44N	58E	7100

OWYHEE RIVER

16G6	I	Antelope Ridge	35	8S	1W	6140
18F5	O	Barren Valley	26	17S	38E	4200
16G9A	I	Battle Creek	10	11S	1E	5720
15H4	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7S	I	Mud Flat	34	9S	2W	5730
17G5A	O	Oregon Canyon	9	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16G1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	10	11S	1W	5950
16G13A	I	War Eagle	20	5S	3W	7280

LEGEND

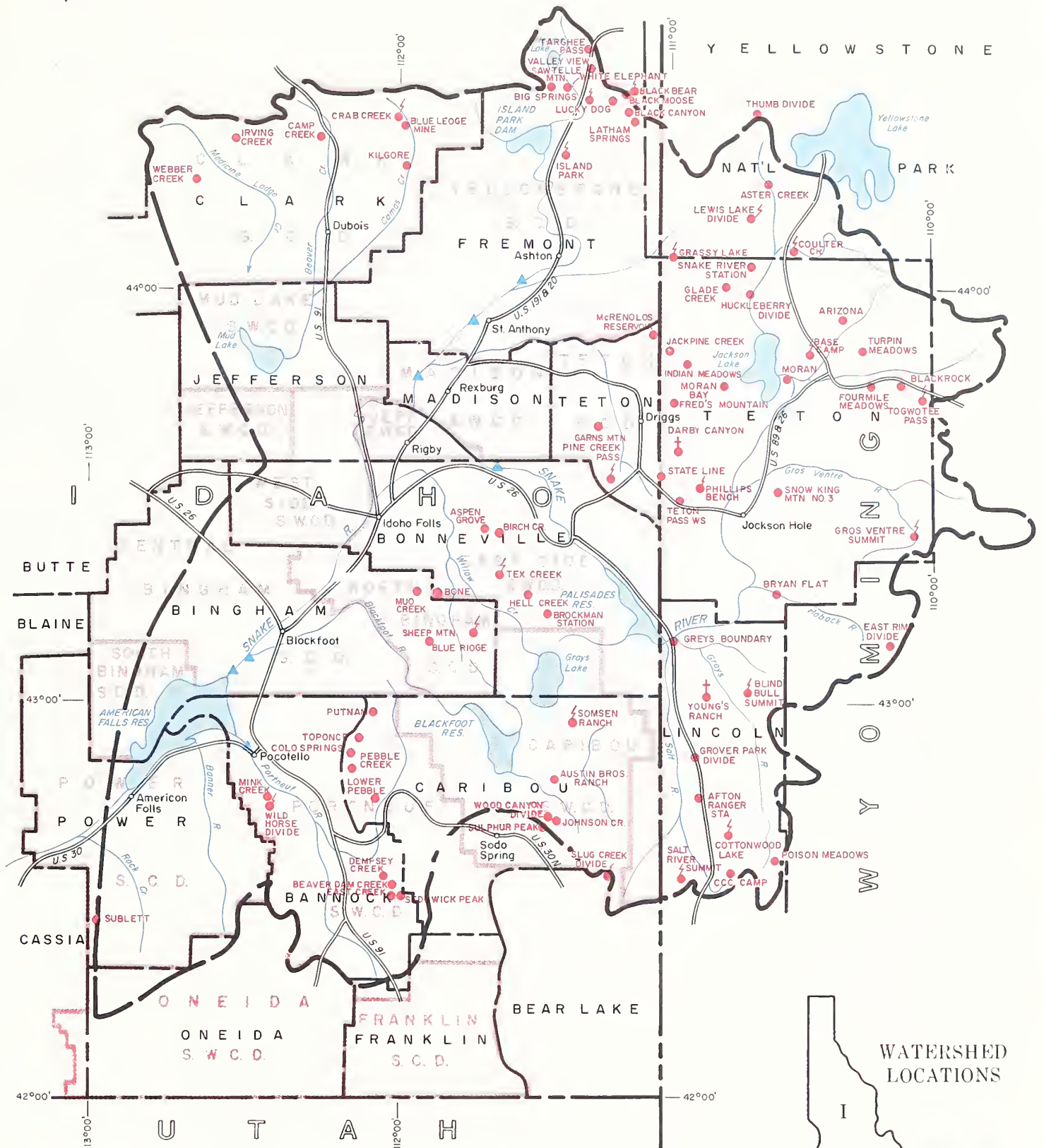
Numbering System (example)

10J7	Snow course only
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10J7S	Snow course and snotel site
10J7R	Radioactive gage

UPPER SNAKE RIVER BASIN



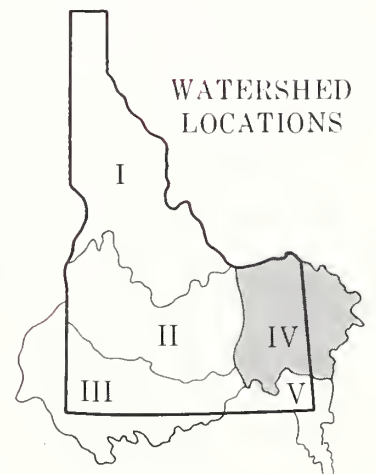
25 0 25 50
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- † Aerial Snow Depth Gage

WATERSHED LOCATIONS



INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
SNAKE RIVER-WYOMING						
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44°17'		110°38'	7700
10F2S	Wy	Base Camp	20	46N	113W	6900
10F7S	Wy	Blackrock	4	44N	111W	8600
10G2S	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5S	Wy	Cottonwood Lake	25	31N	118W	7500
10E10S	Wy	Coulter Creek	44°09'		110°33'	7600
10F17	Wy	East Rim Divide	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9S	Wy	Lewis Lake Divide	44°13'		110°40'	7900
10F4	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8S	Wy	Salt River Summit	32	29N	118W	7900
10E12	Wy	Snake River Station	9	48N	115W	6780
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44°22'		110°35'	7900
10F9S	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530
HENRY'S FORK RIVER						
11E9S	I	Big Springs	4	13N	44E	6400
11E35S	M	Black Bear	27	15S	5E	7950
11E18	I	Black Canyon	11	13N	45E	7960
11E19	I	Black Moose	33	14N	45E	8160
10E15S	Wy	Grassy Lake	6	48N	117W	7230
11E10S	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7630
11E14	I	Lucky Dog	2	13N	44E	6860
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	6980
11E8	I	Valley View	12	15N	43E	6680
11E36	I	White Elephant	17	14N	43E	7710
TETON RIVER						
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6720
10F23S	Wy	Phillips Bench	43°31'		110°55'	8200
11F2	I	Pine Creek Pass	24	3N	44E	6810
11F1	I	State Line	32	3N	46E	6660
10F13	Wy	Teton W.S.	43°30'		110°59'	7740

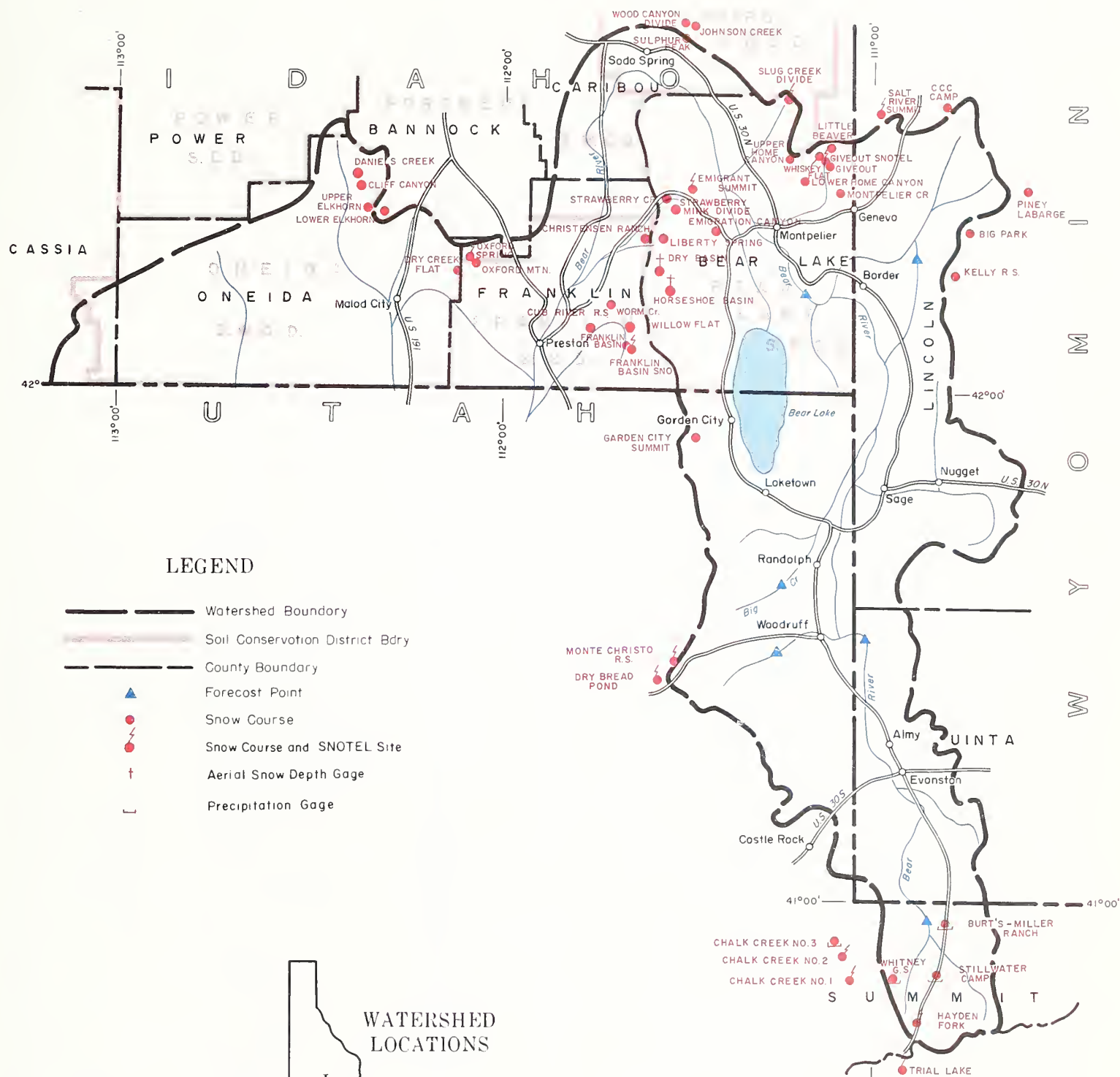
No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
CAMAS-BEAVER CREEK						
11E11	I	Blue Ledge Mine	21	13N	38E	6900
12E3	I	Camp Creek	21	13N	36E	6580
11E17S	I	Crab Creek	21	13N	38E	6860
11E12	I	Kilgore	6	12N	39E	6200
MEDICINE LODGE CREEK						
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700
WILLOW CREEK						
11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7350
11F14	I	Mud Creek	4	2S	39E	7100
11F11SR	I	Sheep Mountain	30	2S	41E	6570
11F5SR	I	Tex Creek	36	1N	41E	6650
BLACKFOOT RIVER						
11G3	I	Austin Brothers Ranch	28	7S	43E	6400
11F17	I	Blue Ridge	35	2S	39E	6780
11G22	I	Johnson Creek	4	9S	43E	6730
11G5S	I	Slug Creek Divide	15	10S	44E	7225
11G18	I	Somsen Ranch	25	5S	43E	7000
11G19	I	Sulphur Peak	8	9S	43E	7070
11G23	I	Wood Canyon Divide	5	9S	43E	7450
FORT PORTNEUF RIVER						
12G7	I	Beaverdam Creek	22	10S	38E	6120
12G16	I	Cold Springs	15	7S	37E	7000
12G5	I	Dempsey Creek	18	10S	38E	6100
11G24	I	East Creek	26	10S	38E	7000
12G6	I	Lower Pebble	7	8S	38E	5780
12G1	I	Mink Creek	33	7S	34E	6410
12G2	I	Pebble Creek	34	7S	37E	6550
12G14	I	Putnam	2	6S	37E	7220
11G17	I	Sedgwick Peak	30	10S	39E	7850
12G15	I	Toponce	23	6S	37E	6160
12G17S	I	Wildhorse Divide	4	8S	34E	6490

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

GREAT BASIN



INDEX to SNOW COURSES

GREAT BASIN

No.	State	Name	Sec.	Twp.	Rge.	Elevation
			Lat.	or And	Long.	
BEAR RIVER						
10G11	Wy	Big Park	7	27N	117W	8700
11H13P	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G25S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	I	Whiskey Flat	26	11S	45E	6960

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	I	Strawberry Creek	9	13S	41E	5820
11G10	I	Strawberry Mink Divide	14	13S	41E	6720

CUB RIVER

11G12	I	Cub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G2S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	I	Lower Elkhorn	30	12S	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	13S	37E	6740
12G10	I	Upper Elkhorn	25	12S	35E	7140

LEGEND

Numbering System (example)

10J7	Snow course only
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10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
Name & Drainage	Elevation					Last Year	Average
Above Burke	Coeur d'Alene	4100	2/1	61	14.2	4.8	16.4*
Allen Ranch	Blackfoot	6470	1/26	44	9.8	--	--
Aspen Grove	Willow	6500	1/28	46	14.3	5.2	8.4*
Atlanta Summit	Boise	7600	1/27	97	30.1	13.0	25.2
Atlanta Townsite	Boise	5280	1/27	46	11.0	4.9	--
Austin Bros. Ranch	Blackfoot	6400	1/26	39	9.8	2.3	6.4
Bad Bear	Boise	4940	1/29	50	12.5	5.0	11.0
Banner Summit	Payette	7040	1/27	86	26.2	13.4	--
Battle Creek	Owyhee	5710	1/29	9	2.7	T	2.8
Bear Basin	Little Salmon	5350	1/30	53	13.8	9.0	--
Bear Canyon	Big Lost	7900	1/27	51	14.7	10.8	13.0*
Bear Creek (Nv)	Jarbridge	8040	1/26	58	18.2	5.3	13.6
Beaverdam Creek	Portneuf	6120	1/30	34	9.8	2.8	--
Benton Meadow	Priest	2370	1/28	25	5.9	0.0	5.5
Benton Spring	Priest	4920	1/29	44	12.1	5.5	13.9
Big Creek Summit	Salmon	6580	1/28	101	30.3	15.5	26.3
Birch Creek	Willow	6800	1/28	41	12.3	3.4	7.4*
Blue Ridge	Blackfoot	6780	2/1	59	19.8	6.5	--
Bogus Basin	Payette	6340	1/29	66	19.7	8.0	17.6
Bogus Basin Road	Boise	5540	1/29	42	9.3	1.6	6.0
Bone	Willow	6200	2/1	27	7.0	2.5	6.0*
Boulder Creek	Weiser	5440	2/1	68	17.6	10.1	18.0
Breezy Saddle	Clearwater	5010	2/4	83	20.9	7.2	--
Brockman Station	Willow	6430	1/29	35	9.2	3.9	--
Brundage Mountain	Little Salmon	7560	1/29	114	36.6	17.0	32.2*
Bull Basin (A)	Owyhee	5480	1/29	4	1.2	0.4	1.3
Camp Creek	Beaver	5780	1/29	28	5.0	5.0	8.3
Cayuse Airstrip	Clearwater	3500	2/4	45	10.5	1.0	9.7*
Copper Basin	Big Lost	7640	1/27	21	6.1	5.9	6.8
Couch Summit	Boise	6840	1/29	53	14.4	10.5	13.7*
Cozy Cove	Deadwood	5380	1/27	54	13.9	7.2	13.2*
Crater Meadows	Clearwater	5960	2/4	112	31.5	10.4	31.0*
Crawford Rgr. Sta.	Payette	4860	1/31	26	7.2	3.4	6.7
Crooked Fork	Lochsa	3610	1/29	40	12.0	2.4	10.4*
Cub River Rgr. Sta.	Cub	5450	1/26	32	8.6	2.8	6.4
Darby Canyon (Wy)	Teton	8250	2/3	73	21.4	7.0	15.4*
Deadline	Salmon Falls	7400	1/31	54	17.2	7.3	15.7
Deadline South	Salmon Falls	7450	1/31	61	19.5	--	--
Deadwood Airstrip	Deadwood	5360	1/27	51	12.6	7.9	11.7
Deadwood Summit	Deadwood	6860	1/27	122	40.1	22.4	34.8*
Dempsey Creek	Portneuf	6100	1/30	40	13.4	4.6	8.3
Dollarhide Summit	Big Wood	8420	1/27	80	25.1	11.2	18.3*
East Creek	Portneuf	7000	1/30	44	14.0	3.6	--
Elk Butte	Clearwater	5550	2/4	98	25.7	7.7	--
Emigrant Summit	Bear	7390	1/28	77	24.6	7.1	17.0
Emigration Canyon	Bear	6500	1/28	38	10.6	3.8	7.5
Fairview Guard Sta.	Little Lost	6750	1/29	21	4.8	2.0	3.7
Fish Lake Airstrip	Lochsa	5650	2/4	108	29.9	9.4	28.8*
Forty-nine Meadows	Clearwater	4830	2/4	76	19.7	6.4	--
Fourth of July Smt.	Coeur d'Alene	3200	2/1	29	8.5	0.2	7.2
Franklin Basin	Cub	8040	1/26	64	21.2	5.2	17.8*
Freds Mountain (Wy)	Teton	8150	1/28	71	21.5	9.9	13.9*
Galena	Big Wood	7440	1/28	63	17.8	10.2	14.8
Galena Summit	Big Wood	8780	1/28	71	21.1	11.8	17.5
Garfield Rgr. Sta.	Little Wood	6560	1/27	29	7.3	6.4	8.0*
Gibbons Pass (Mt)	Bitterroot	7100	1/29	74	20.4	11.2	16.7
Giveout	Montpelier	6860	1/27	46	12.3	2.7	8.5
Goat Creek (Nv)	Salmon Falls	8880	2/1	54	16.7	4.0	11.8
Graham Guard Sta.	Boise	5690	1/27	55	14.7	5.4	--
Graham Ranch	Big Wood	6270	1/28	44	12.0	8.4	10.5
Grassy Lake (Wy)	Henry's Fork	7265	1/27	104	31.6	13.6	24.8
Hemlock Butte	Clearwater	5810	2/4	129	36.3	10.9	35.1*
Hilts Creek	Little Lost	8000	1/28	38	10.4	5.4	--
Hoodoo Basin (Mt)	Clark Fork	6000	1/27	120	37.2	20.4	36.3*
Hoodoo Creek (Mt)	Clark Fork	5900	1/27	114	33.0	16.6	32.5*
Howell Canyon	Marsh Creek	7980	1/27	76	26.3	5.4	18.6
Humboldt Gulch	Coeur d'Alene	4250	2/1	55	12.2	--	--
Hyde Pasture (A)	Jordan-Owyhee	5760	1/29	30	9.0	--	4.3
Hyndman Creek	Big Wood	7440	1/27	45	12.0	9.3	--
Idaho City	Boise	4000	1/29	35	8.6	2.9	--
Indian Meadows	Teton	8240	2/2	93	28.3	--	--
Island Park	Henry's Fork	6290	1/27	56	13.4	7.6	12.0
Big Springs	Henry's Fork	6400	1/27	59	16.1	8.0	14.7

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.

(A) Aerial observation Water content estimated. (S) Snotel ground truth reading.

SNOW

DRAINAGE BASIN and or SNOW COURSE				THIS YEAR			PAST RECORD	
				Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
							Last Year	Average
Name & Drainage		Elevation						
Jackpine Creek (Wy) Teton		7350		1/29	63	18.6	6.2	14.9*
Jackson Peak Boise		7070		1/27	84	24.4	13.5	24.1*
Johnson Creek Blackfoot		6730		2/1	45	12.4	4.1	--
Kilgore Camas Creek		6320		1/30	32	8.4	5.8	8.6
Kruze Meadow Clearwater		4780		1/29	35	9.6	--	--
Lake Fork Payette		5290		1/30	50	12.3	6.5	11.2*
Langford Flat Creek Salmon Falls		5980		1/31	21	4.9	--	--
Lava Creek Willow		7350		1/29	56	15.2	5.9	--
Little Beaver Montpelier		6970		1/27	54	15.9	2.3	10.6
Lolo Pass Lochsa		5240		1/30	79	23.4	7.7	21.8*
Lookout Coeur d'Alene		5140		1/28	83	21.8	10.8	25.4
Lost Garfield Little Lost		6600		1/29	19	4.2	1.7	3.1
Lost Lake Clearwater		6110		2/4	130	36.9	16.3	39.4*
Lost-Wood Divide Big Lost		7900		1/27	65	20.1	12.1	17.0*
Lower Home Canyon Montpelier		7640		1/28	48	13.6	3.1	10.1*
Lower Pebble Portneuf		5780		1/30	55	19.8	3.1	9.2*
Magic Mountain Rock Creek		6880		2/1	59	17.9	6.8	12.8
Mascot Mine Big Wood		7780		1/27	45	13.0	8.2	9.8*
McRenolds Reservoir Teton		6720		1/29	59	16.1	6.5	13.0*
Mill Creek Summit Salmon		8800		1/27	67	21.2	8.6	17.1
Mink Creek Portneuf		6410		1/31	59	21.7	7.0	12.4*
Montpelier Creek Montpelier		6540		1/27	35	8.4	1.9	5.8
Moonshine Little Lost		7440		1/29	31	8.2	4.2	7.9*
Moore Creek Summit Boise		6100		1/29	91	27.3	12.5	23.7
Moose Creek N. F. Salmon		6200		2/1	62	17.6	6.6	12.6
Morgan Creek Salmon		7600		1/28	48	12.9	4.5	10.3
Mosquito Ridge Coeur d'Alene		5200		1/27	80	21.2	15.2	24.5*
Mount Baldy Big Wood		8920		2/1	67	20.3	11.3	15.2*
Mud Creek Willow		7100		2/1	59	18.8	9.0	--
Muldoon Little Wood		6320		1/27	19	4.3	4.5	6.2*
Packsaddle Spring Teton		8200		1/28	77	26.4	9.0	--
Pebble Creek Portneuf		6550		1/30	51	17.2	5.2	11.2
Phillips Bench Teton		8200		1/28	88	27.4	15.3	17.8*
Pierce Ranger Sta. Clearwater		3080		2/1	44	10.8	0.7	8.6
Pine Creek Pass Teton		6810		1/28	58	15.7	6.8	12.0
Pole Creek Ranger Sta. Jarbidge		8360		2/1	57	17.9	5.0	14.4
Prairie Boise		4800		1/29	27	7.4	0.6	5.5
Rock Flat Summit Payette		5310		1/29	49	12.2	7.8	13.3
Savage Pass Lochsa		6170		1/29	79	22.2	10.0	19.1*
Sawmill Canyon Little Lost		7000		1/29	28	6.8	3.0	6.0*
Sawtell Mountain Henrys Fork		8720		1/27	91	28.7	15.1	22.8*
Schweitzer Bowl Pend Oreille		4800		1/29	70	21.8	--	21.8*
Schweitzer Ridge Pend Oreille		6200		1/29	87	31.5	20.1	32.6*
Secesh Summit Payette		6520		1/30	94	29.7	16.4	26.3*
Sedgwick Peak Portneuf		7850		1/30	59	18.5	--	--
Seventy-Six Creek Jarbidge-Bruneau		7100		1/26	48	13.6	3.8	7.8
Shanghai Summit Clearwater		4570		2/4	82	20.9	1.4	17.4*
Sheep Mountain Willow		6570		2/1	43	11.6	4.7	9.8*
Sherwin St Maries		3200		1/29	48	13.2	0.7	10.7
Shoshone Basin Salmon Falls		5810		1/31	21	5.3	--	4.4*
Silver City (A) Jordan-Owyhee		6400		1/29	52	16.6	--	11.1*
Slug Creek Divide Blackfoot		7230		1/27	51	15.5	4.3	11.5
Soldier Ranger Sta. Big Wood		5740		1/29	41	10.9	6.1	9.8
Somsen Ranch Willow Creek		6840		1/26	55	13.4	4.4	10.1
South Mountain Jordan-Owyhee		6500		1/30	46	14.6	4.0	9.9
Squaw Flat Weiser		6240		2/3	62	18.4	10.6	--
Squaw Meadow Payette		5900		1/30	89	29.0	16.9	25.8*
State Line Teton		6660		1/28	45	11.9	6.5	10.0
Stickney Mill Big Lost		7430		1/27	28	6.1	6.3	6.0*
Strawberry Creek Mink		5820		1/28	37	9.9	3.4	7.4
Succor Creek (A) Jordan-Owyhee		6100		1/29	26	7.8	2.8	3.8
Sulphur Peak Blackfoot		7070		2/1	47	13.8	4.0	--
Sunset (S) Coeur d'Alene		5540		1/26	81	23.5	8.9	--
Swede Peak Little Wood		7640		1/27	49	12.8	8.5	12.6
Targhee Pass Henrys Fork		6980		1/27	36	10.2	4.9	10.5*
Teton Pass W.S. (Wy) Teton		7740		1/28	75	24.4	8.8	16.8*
Tex Creek Willow		6650		1/29	40	8.5	4.3	6.5*
Trinity Mountain Boise		7770		1/27	110	38.2	16.0	31.1
Twitchell Canyon Blackfoot		6300		2/1	47	15.2	--	--
Upper Home Canyon Montpelier		8560		1/28	76	24.1	5.2	16.3*
Valley View Henrys Fork		6680		1/28	45	11.9	5.6	12.5
Vaught Ranch (A) Owyhee		5830		1/29	17	5.1	T	3.2*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.

(A) Aerial observation Water content estimated. (S) Snotel ground truth reading.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
Name & Drainage	Elevation					Last Year	Average
Vienna Mine	Salmon	8960	1/27	107	33.4	16.2	26.1*
Webb Creek	Clearwater	4720	1/29	36	10.5	--	--
West Branch	Weiser	5560	2/1	71	19.0	11.6	--
Wet Creek Summit	Little Lost	7680	1/28	33	8.1	4.4	8.7*
Whiskey Flat	Montpelier	6960	1/27	39	10.3	2.3	6.5
White Elephant	Henry's Fork	7710	1/27	68	20.1	10.5	13.2*
Wildhorse Divide	Portneuf	6490	1/31	56	18.8	--	--
Willow Flat	Cub	6070	1/26	49	14.2	3.8	10.9
Wood Canyon Divide	Blackfoot	7450	2/1	54	16.0	3.9	--

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GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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